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file 0325

NPIC/TSSG/DED-1179-68
15 April 1968

MEMORANDUM FOR THE RECORD

SUBJECT: Visit to the Army Night Vision Laboratory, Fort Belvoir, Virginia

1. On 10 April 1968, a visit was made to the Army's Night Vision Laboratory at Fort Belvoir. [REDACTED]

2. As may be seen in the attached brochure (also attached is a paper of general interest), NVL's primary research responsibility lies in the area of direct viewing electro-optical equipment to be used at night in the battlefield environment.

3. Motivation for visiting, [REDACTED] came from knowledge obtained through [REDACTED] that NVL and NPIC were encountering similar problems in defining image quality requirements for the human observer. The Visual Perception Team, in fact, has been sponsoring both [REDACTED] in a study very closely paralleling some of the resolution investigations NPIC has sponsored under our "P.I. Performance Studies" contract. NVL's specific concern is for quantifying the minimum image quality required in various night viewing systems for the operator to perform his assigned function satisfactorily. In accordance with this ultimate goal, [REDACTED] is involved in a more basic research program designed to assign information transfer values to a variety of image components such as resolution and contrast. [REDACTED] Line Scan Generator has been employed to produce tactical vehicle images of controlled cue degradation. Psychophysical studies have been performed with these records, but the final direction that this research will take is still under consideration by NVL.

4. It is recommended that thorough coordination be maintained between NPIC/TSSG and NVL regarding especially the described project. Additionally, it is also deemed desirable for the appropriate TSSG members to become fully aware of the total scope of NVL's broad electro-optical capabilities.

NGA Declass Review Complete

TSSG/DED/R&DBI

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